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Technology Center 2600

Atty. Dkt. No. 00CR002/KE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Steffensmeier et al.

Title: METHOD AND APPARATUS
FOR EXTENDING THE LIFE OF
MATRIX ADDRESSED
EMISSIVE DISPLAY DEVICES

Appl. No.: 09/648,830

Filing Date: 08/25/2000

Examiner: Kevin M. Nguyen

Art Unit: 2674

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

EL 99463310545 10/8/04
(Express Mail Label Number) (Date of Deposit)

Sheila K. Mathews
(Printed Name)

Sheila K. Mathews
(Signature)

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

We, Martin J. Steffensmeier, Randy A. Naeve, and Thomas C. Rohr, state and declare that:

1. Each of Linley E. Woelk and us is an inventor/co-inventor of at least one of Claims 1-20 currently pending in U.S. Patent Application No. 09/648,830 titled "METHOD AND APPARATUS FOR EXTENDING THE LIFE OF MATRIX ADDRESSED EMISSIVE DISPLAY DEVICES" (hereinafter "the '830 application").
2. We understand that in an Office Action dated July 13, 2004, each of Claims 1-20 were rejected as being unpatentable based in part on the use of U.S. Patent No. 6,486,900 to Shen et al., entitled "SYSTEM AND METHOD FOR A VIDEO DISPLAY SCREEN SAVER" (hereinafter "Shen et al.").
3. We understand based on the information provided on the front page of Shen et al. that Shen et al. has a filing date of June 28, 2000.
4. At least by October 1, 1999, we conceived in the United States the ideas set forth in Claims 1-20 of the '830 application. Such conception is evidenced by the attached

Exhibit A, which is an invention disclosure form pertaining to the subject matter of the present application dated October 1, 1999.

5. Based on the conception of the ideas set forth in Claims 1-20 at least by October 1, 1999, the subject matter recited in Claims 1-20 was invented by Linley E. Woelk and us prior to the June 28, 2000 filing date of Shen et al.
6. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are true, and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the patent application or any patent issuing therefrom.

Date: 10/7/04

By: Martin J. Steffensmeier
Martin J. Steffensmeier

Date: 10/7/04

By: Randy A. Naewe
Randy A. Naewe

Date: 10/7/04

By: Tom C. Rohr
Thomas C. Rohr

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INNOVATION DISCLOSURETechnology Center 8600 012002/KF**1. Innovator (Please Print)**

<u>Name</u>	<u>Div. Name & Mail Code</u>	<u>COMNET Telephone</u>	<u>Supervisor</u>
<u>Martin J. Steffensmeier</u>	<u>ATC 108-207</u>	<u>x4809</u>	<u>Randy L. Garrett</u>
<u>Randy A. Naeve</u>	<u>ATC 108-207</u>	<u>x0272</u>	<u>Martin J. Steffensmeier</u>
<u>Thomas C. Rohr</u>	<u>ATC 108-207</u>	<u>x5581</u>	<u>Martin J. Steffensmeier</u>
<u>Linley E. Woelk</u>	<u>ATC 108-207</u>	<u>x2227</u>	<u>Martin J. Steffensmeier</u>

2. Title: Novel Technique For Extending The Life Of Emissive Display Technologies**3. Short statement of problem solved:**

Decay of the emissive elements of emissive display devices occurs with usage. In particular, static images will be retained on matrix type emissive display devices in time due to luminance decay of the emissive elements. The technique mentioned below will extend the life of emissive type display devices.

4. Short statement of your solution (use reverse side, if necessary) or attach existing descriptive report and drawing:

The invention is to very slowly translate the image to be displayed within the active area of an emissive display device in such a way so that the movement will not be noticeable or annoying to the viewer and such that the emissive elements will not always be required to be "on" or at full intensity.

Of course, the content of the image to be displayed will be a factor in the life extension. However, display devices with static images with low fill factors are the most vulnerable to noticeable image retention and therefore have the greatest potential for extension of useable life.

The preferred embodiment for this invention would be that for organic light emitting diodes but will apply to all emissive display devices that experience luminance decay (today there are no known exceptions to the luminance decay phenomena).

5. Status of innovation: ☒ Idea ☐ In design ☐ Under development ☐ Prototype built. Other**6. Has any work on the innovation been charged to a Government contract?**

X No. Yes, if so G. O. No. _____

7. Product or program in which innovation will be used: Potentially as part of our DARPA funded Flexible Displays Program**8. Has anyone disclosed or does anyone plan to disclose you innovation outside the Company? X No. Yes, if so when and how: _____****9. Has anyone proposed or does anyone plan to propose a product or program to a customer which includes your innovation? ☐ No. Yes Potentially as part of our DARPA funded Flexible Displays Program**

10. Innovator's signature: Martin J. Steffensmeier Date: 10/1/99
Randy A. Naeve Date: 10-1-99
Thomas C. Rohr Date: 10/1/99
Linley E. Woelk Date: 10-1-99

EXHIBIT A